

# Modifying and Deleting Groups

**Spoken Tutorial Project**

<http://spoken-tutorial.org>

**National Mission on Education through ICT**

<http://sakshat.ac.in>

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**22 August 2018**



# Learning Objectives

**We will learn about**



# Learning Objectives

We will learn about

- `groupmod` **command**



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We will learn about

- groupmod **command**
- groupdel **command**



# System Requirements



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- **Ubuntu Linux 16.04 OS**



# Pre-requisites

- Please go through earlier Linux System Administration **tutorials** on **<http://spoken-tutorial.org/>**



# Pre-requisites

- Please go through earlier Linux System Administration **tutorials** on **<http://spoken-tutorial.org/>**
- You must have root access to your computer





# groupmod command

- Used to modify the definition of the group specified in the command



# groupmod command

- Used to modify the definition of the group specified in the command
- **Syntax:**  
`groupmod [options] groupname`



# groupmod command

- Used to modify the definition of the group specified in the command
- Syntax:  
`groupmod [options] groupname`
- Options field is not mandatory



# groupmod command

Used to modify:

- **The group name**



# groupmod command

Used to modify:

- The group name
- **GID**



# groupmod command

Used to modify:

- The group name
- GID
- **GID to a non-unique number**



# Modify GID

- You can also change the GID of a group to a new unique non-negative number



# Modify GID

- You can also change the GID of a group to a new unique non-negative number
- Suppose, you are planning to use number 1100 as new GID value





# Modify GID

- You can also change the GID of a group to a new unique non-negative number
- Suppose, you are planning to use number 1100 as new GID value
- First ensure, that the number 1100 is not present as GID in any other group



# Files owned by modified group

- **The group ID has changed**



# Files owned by modified group

- The group ID has changed
- But the files belonging to this group will retain the old group ID value



# Files owned by modified group

- The group ID has changed
- But the files belonging to this group will retain the old group ID value
- We must change their group ID manually



# Modify GID

- To change the group ID to a non-unique value



# Modify GID

- To change the group ID to a non-unique value
- You will need `-o` option along with `-g` option



# groupdel command

- **Used by root or the superuser to remove a group**



# groupdel command

- Used by root or the superuser to remove a group
- **Syntax is:** `groupdel groupname`





# groupdel command

**The important point you have to keep in mind is:**



# groupdel command

The important point you have to keep in mind is:

- You are not permitted to remove the primary group of any existing user



# groupdel command

The important point you have to keep in mind is:

- You must remove the user first



# groupdel command

The important point you have to keep in mind is:

- You must remove the user first
- Then you can remove that user's primary group



# Files owned by deleted group

- `groupdel` **will not automatically check for files owned by the deleted group**



# Files owned by deleted group

- `groupdel` **will not automatically check for files owned by the deleted group**
- **You should manually search all file systems for such files**



# Files owned by deleted group

- `groupdel` will not automatically check for files owned by the deleted group
- You should manually search all file systems for such files
- Use `find` command for this search



# Files owned by deleted group

- You should ensure that no files remain owned by this deleted group





# Files owned by deleted group

- You should ensure that no files remain owned by this deleted group
- You can either delete those files or change group ownership using `chgrp` command



# Summary

## We learnt about

- **groupmod command to modify:**
  - The group name
  - GID
  - GID to a non-unique number
- **groupdel command to delete group**



# Assignment

- **Create two groups:**
  - civil **with** GID: 1201
  - mechanical **with** GID 1202



# Assignment

- **Add a user `suman` with primary group `civil`**
- **Let `suman` create a document `test.txt` and type any text of your choice**



# Assignment

- **Modify the GID of the group `civil` to 1203**
- **Change the group ownership of the file `test.txt`**
- **Delete group `civil`**
- **Delete file `test.txt`**



# About the Spoken Tutorial Project

- Watch the video available at [http://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](http://spoken-tutorial.org/What_is_a_Spoken_Tutorial)
- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it



# Spoken Tutorial Workshops

## The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates to those who pass an online test
- For more details, please write to [contact@spoken-tutorial.org](mailto:contact@spoken-tutorial.org)



# Forum for specific questions

- Do you have questions in THIS Spoken Tutorial?
- Please visit <http://forums.spoken-tutorial.org>
- Choose the minute and second where you have the question
- Explain your question briefly
- Someone from our team will answer them





# Acknowledgements

- Spoken Tutorial Project is a part of the Talk to a Teacher project
- It is supported by the National Mission on Education through ICT, MHRD, Government of India
- More information on this Mission is available at:

<http://spoken-tutorial.org/NMEICT-Intro>



# Thank You

**Thanks for joining**  
**<http://spoken-tutorial.org>**

